

3M General Offices

3M Center
St. Paul, Minnesota 55144-1000
612/733 1110

01-33
1772

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET



DIVISION: ADHESIVES, COATINGS AND SEALERS

TRADE NAME:

Scotch-Seal (TM) EC-1252 Orange Tamper Proof Sealant [AEROSPACE
MATERIALS DEPARTMENT]

3M I.D. NUMBER: 62-1921-2640-7

ISSUED: SEPTEMBER 25, 1989

SUPERSEDES: SEPTEMBER 1, 1989

DOCUMENT: 10-8614-9

1. INGREDIENT	C.A.S. NO.	PERCENT	----- EXPOSURE -----		LIMITS -----	
			VALUE	UNIT	TYPE	AUTH
hydrated aluminum silicate	13132-95-1	20.0 - 30.0	NONE	NONE	NONE	NONE
methyl ethyl ketone	78-93-3	20.0 - 30.0	200	ppm	TWA	ACGIH
limestone	1317-65-3	20.0 - 30.0	10	mg/m3	TWA	ACGIH
titanium dioxide	13463-67-7	1.0 - 10.0	10	mg/m3	TWA	ACGIH
molybdate orange	12656-85-8	1.0 - 10.0	0.05	mg/m3	Pb	TWA OSHA
acrylonitrile-butadiene polymer	9003-18-3	1.0 - 10.0	NONE	NONE	NONE	NONE
antimony trioxide	1309-64-4	1.0 - 10.0	0.5	mg/m3	Sb	TWA ACGIH
phenol-formaldehyde polymer	9003-35-4	1.0 - 10.0	NONE	NONE	NONE	NONE
phenol-formaldehyde polymer -	V.T.S.	1.0 - 10.0	NONE	NONE	NONE	NONE
Vendor Trade Secret (V.T.S.)						
chloroalkanes	61788-76-9	1.0 - 10.0	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... 176.00 F
(MEK)
VAPOR PRESSURE:..... 80.0000 mmHg
@ 68F
VAPOR DENSITY: 2.50 Air = 1
EVAPORATION RATE:..... 2.70 Ether = 1
SOLUBILITY IN WATER: Slight
SP. GRAVITY:..... 1.500 Water = 1
PERCENT VOLATILE: 24.00 %
VOLATILE ORGANICS: 368.00 gm/l
pH: N/A
VISCOSITY: 200.0-1000.0 CPS
APPEARANCE AND ODOR: Orange paste, solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 20.00 F
FLAMMABLE LIMITS - LEL: 1.80 %
FLAMMABLE LIMITS - UEL: 11.50 %
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
CO2, foam, dry chemical, water
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing
apparatus when fighting fires involving this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Extremely flammable. Overheated, closed containers adjacent to fire

Abbreviations: N/D - Not Determined N/A - Not Applicable

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

could explode due to pressure buildup.
NFPA-HAZARD-CODES: HEALTH 2 FIRE 3 REACTIVITY 0
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2, Sb204, Sb205 and smoke particles when subjected to excessive
heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Extinguish all ignition sources. Ventilate area. Observe
precautions from other sections. Collect spilled material. Place in
a U.S. Dept. of Transportation-approved metal container, and seal.

RECOMMENDED DISPOSAL:

Incinerate bulk product after mixing with flammable material in a
licensed hazardous waste facility. Disposal should be in accordance
with applicable regulations.
U.S. EPA HAZARDOUS WASTE NUMBER: D001 (IGNITABLE).

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC):
Maximum VOC = 368 grams/liter.
Maximum VOC minus Water minus Exempt Solvents = 368 grams/liter.

SARA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Flush eyes with plenty of water for at least 10 minutes. Call a
physician.

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

Remove person to fresh air. Call a physician.

IF SWALLOWED:

DO NOT induce vomiting. Call a physician or poison control center.

OTHER FIRST AID:

NONE

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7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. Keep product and its vapors away from heat, sparks, flame and other sources of ignition. The vapors released by this product can easily be ignited. Avoid breathing vapors. Use only in areas with ventilation sufficient to maintain concentrations below recommended exposure limits. Prevent eye and skin contact. Use eye (e.g. safety glasses, chemical goggles) and skin (e.g. impervious gloves) protection to prevent contact. Keep container closed when not in use. Keep out of the reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	---- EXPOSURE LIMITS ----			
	VALUE	UNIT	TYPE	AUTH
methyl ethyl ketone	590	mg/m3	TWA	ACGIH
methyl ethyl ketone	300	ppm	STEL	ACGIH
methyl ethyl ketone	885	mg/m3	STEL	ACGIH
methyl ethyl ketone	200	ppm	TWA	OSHA
methyl ethyl ketone	590	mg/m3	TWA	OSHA
methyl ethyl ketone	300	ppm	STEL	OSHA
methyl ethyl ketone	885	mg/m3	STEL	OSHA
limestone	15	mg/m3	TWA	OSHA
titanium dioxide	10	mg/m3	TWA	OSHA
molybdate orange	0.15	mg/m3 Pb	TWA	ACGIH
antimony trioxide	0.5	mg/m3 Sb	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: Liquid and vapor may cause eye irritation.

SKIN CONTACT: May cause skin irritation on prolonged or repeated contact.

INHALATION: Vapor overexposure may cause respiratory system irritation and temporary nervous system impairment (light-headedness). Symptoms of overexposure include headache, dizziness, weakness, fatigue, and on extreme overexposure, unconsciousness.

INGESTION: May cause digestive system irritation and light-headedness. Symptoms of ingestion may include nausea and vomiting. Solvent aspiration into the lungs may cause lung damage, which can be fatal.

NOTE: Antimony trioxide has been found to cause cancer in laboratory animal studies. Antimony trioxide is bound in this product so exposure by inhalation is not expected.

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BOE-C6-0229876

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SECTION CHANGE DATES

HEADING

SECTION CHANGED SINCE SEPTEMBER 1, 1989 ISSUE

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The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.

BOE-C6-0229877